

Maryland Low-Income Population Analysis Database Tutorial

Background and Purpose

What is the Maryland Low-Income Population Analysis Database?

The Maryland Low-Income Population Analysis Database is a tool developed by APPRISE for the Maryland Office of People's Counsel (OPC) that provides state and local agencies and the general public access to data from the U.S. Census Bureau's American Community Survey to analyze income, demographic, housing, and energy characteristics of low-income households in Maryland. The database includes information on low-income households, defined as having income at or below 200% of the Federal Poverty Level.

Through a series of menus, users can develop customized reports on the characteristics of low-income households. Users have the option to view data on all low-income households in Maryland or to view data for low-income households in specific geographic areas and/or with specific population characteristics.

What Information Can I Find in this Tutorial?

This tutorial contains four sections with step-by-step instructions to help users build reports in the Maryland Low-Income Population Analysis Database.

- [Section 1 – Creating Custom Reports](#)
- [Section 2 – Selecting Standard Reports](#)
- [Section 3 – Step-by-Step Examples for Building Reports](#)
- [Section 4 – List of Variables Available for Analysis](#)

Who Developed this Database?

The [Maryland Office of People's Counsel](#) (OPC) is an independent state agency that represents the interests of residential consumers of electricity, natural gas, telecommunications, private water, and certain transportation services in Maryland. OPC developed the Database to further its efforts to increase public awareness and access to information on the energy needs of low-income households.

OPC built the Database as part of a [Market Characterization Study](#) it commissioned with the support of [APPRISE](#), a non-profit research institute, to understand the energy needs of low-income households. OPC will use this information to inform recommendations about Maryland's energy assistance and low-income energy efficiency programs, and advocate for policies that improve energy affordability for low-income households. Although the Database was built to understand the energy needs of low-income households, it includes data on a wide range of population characteristics that should be helpful to individuals, organizations, and agencies working on other issues affecting low-income households.

Maryland Low-Income Population Analysis Database Tutorial

Creating Custom Reports – Select a Geographic Area or Population Segment to Analyze

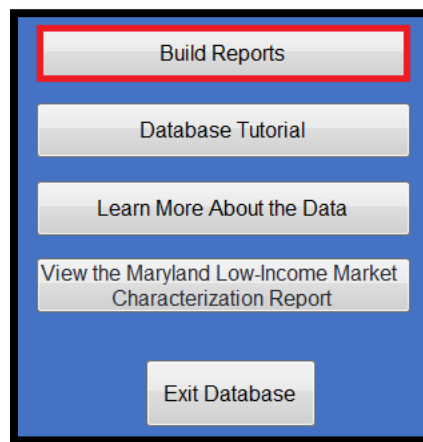
Does the Database Include Program Data on Energy Assistance and Low-Income Energy Efficiency Programs in Maryland?

No. While the Database includes data on households income-eligible for these programs, it does not include data on program recipients. However, you will find that data in the companion Report. A link to the full Report is available on the Homepage of the Database.

CREATING CUSTOM REPORTS

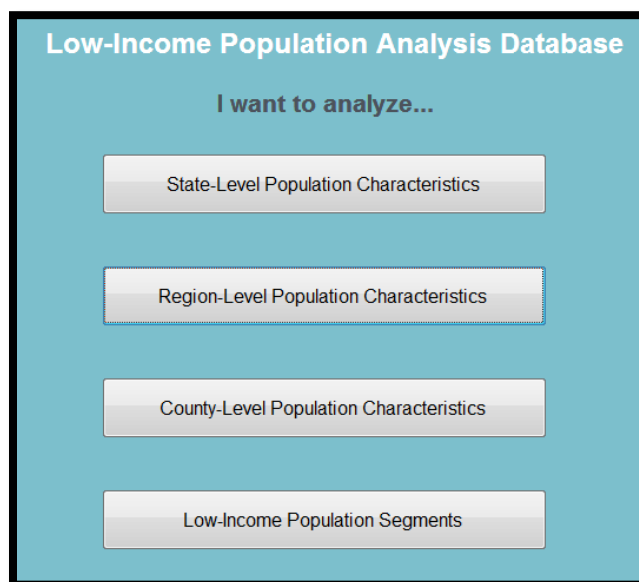
Get Started Building a Custom Report

From the Database homepage, select “Build Reports.”



Choose Your Type of Analysis





You will be presented with a menu to choose what type of analysis you want to perform.



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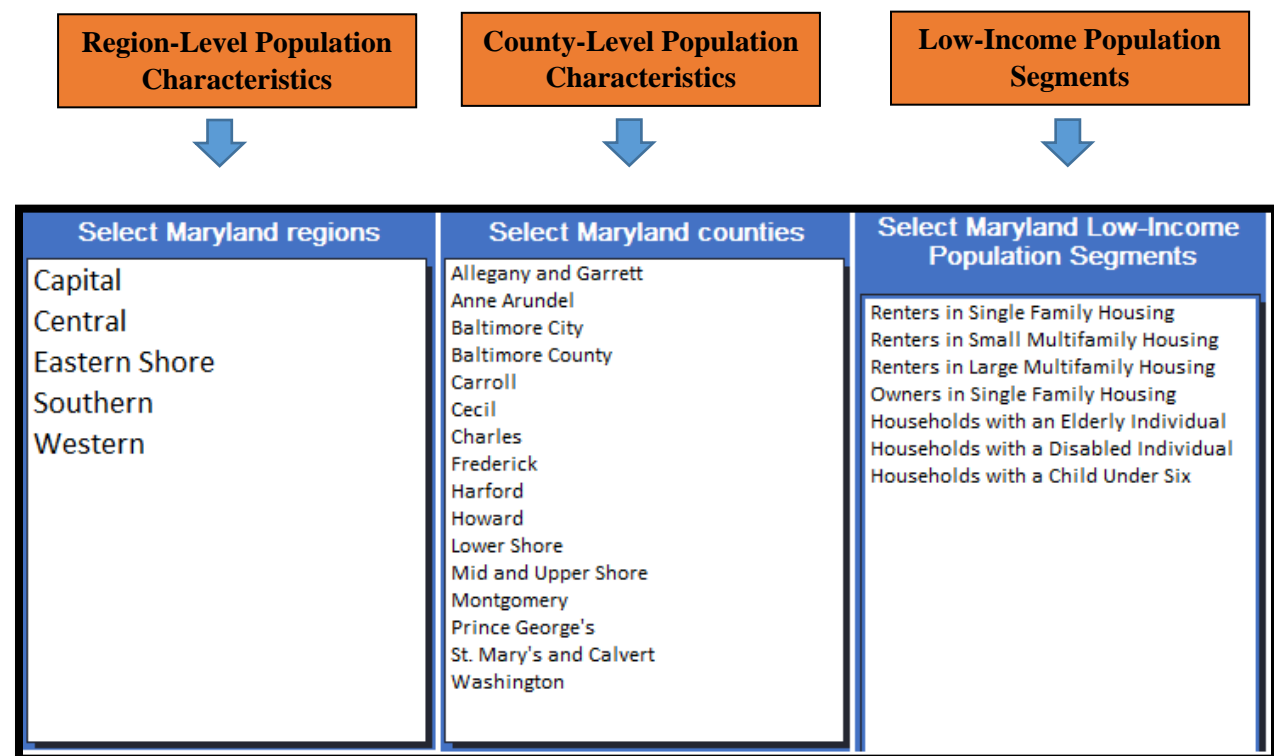
Creating Custom Reports – Select a Geographic Area or Population Segment to Analyze

Select the type of analysis you would like to perform based on whether you are interested in analyzing population characteristics within a specific geographic area or for a specific segment of the low-income population.

If you want to analyze data for the entire state of Maryland		Click on “State-Level Population Characteristics”
If you want to limit analysis to one or multiple regions in Maryland		Click on “Region-Level Population Characteristics”
If you want to limit analysis to one or multiple counties in Maryland		Click on “County-Level Population Characteristics”
If you want to limit analysis to households with specific housing or demographic characteristics		Click on “Low-Income Population Segments”

Choose a Population Subset to Analyze

Once you have selected the type of analysis to perform, you will be taken to a page with several steps to specify the parameters for your custom report. In the first step you will be prompted to select which subset of the low-income population to analyze based on whether you selected to analyze regions, counties, or population segments. Users that select state-level analysis do not need to choose a population subset in Step 1 since they have already indicated they would like to analyze data for the entire state.



Maryland Low-Income Population Analysis Database Tutorial

Creating Custom Reports – Add Additional Filters to Your Population Analysis

Tip #1

Deciding Whether to Conduct State, Region, County, or Population Segment Analysis

Users that decide to analyze region- or county-level characteristics or population segments are prompted to choose which sub-groups to analyze. Users can select one or multiple counties or regions to include in their analysis; however, users can only select one low-income population segment at a time to analyze.

Keep in mind – if you are interested in reporting on the number of low-income households in each county or region in Maryland, you should choose to analyze “State-Level Characteristics” and then select “State Regions” or “County/County Areas” as the population group you are analyzing in Step 3 or 4 in the report selection screen. Only choose “Region-Level Characteristics” or “County-Level Characteristics” if you want to limit your report to a subset of regions or counties. Users that want to limit their analysis to a population segment not available in the “Low-Income Population Segments” section can choose to perform “State-Level Characteristics” and use filters in Step 2 of the report selection screen to customize the low-income population segments to include in their analysis.

Due to their small population size, some counties have been grouped into county areas in the Database. Regions available for analysis roughly approximate the service territories of the service areas of the largest regulated utilities. They do not align exactly with utility service areas but are intended to inform analysis of population characteristics within different regions of the state. Beneath the selection screen to choose regions or county areas is a map with labels that shows the counties included in each region and county area. Users can click the map to view a larger image of it.

Add Additional Filters to Your Population to Analyze

Once you have selected whether you will analyze low-income households in the entire state or indicated which regions, counties, or population segments to analyze, you will have an opportunity to further refine your analysis to only include households with specific income, demographic, ownership, energy, and/or housing characteristics in Step 2 of the report selection screen. The Database defaults to including all low-income households within the geographic area/population segment you’ve selected but allows you to apply additional filters. See below a list of all available filters to choose from in Step 2 of the report selection screen.

Maryland Low-Income Population Analysis Database Tutorial

Creating Custom Reports – Add Additional Filters to Your Population Analysis

☒ All Low-Income Households

- ☐ 0 - 75% FPL
- ☐ 76 - 110% FPL
- ☐ 111 - 150% FPL
- ☐ 151 - 175% FPL
- ☐ 176 - 200% FPL



Users can use this menu to limit their analysis to a subset of the population within specific income ranges. By default, the Database includes data on all low-income households at or below 200% of the Federal Poverty Level.

☒ All Low-Income Households

- ☐ Elderly Member
- ☐ Disabled Member
- ☐ Child Under 6



Users can use this menu to limit their analysis to households with a vulnerable population that may be more sensitive to temperature extremes and susceptible to health and safety concerns from loss of home energy service.

☒ All Owners and Renters

- ☐ Owners
- ☐ Renters



Users can use this menu to limit their analysis to households that either own or rent their home.

☒ All Main Heating Fuels

- ☐ Electric
- ☐ Natural Gas
- ☐ Oil and Kerosene
- ☐ Propane
- ☐ Other




Users can use this menu to limit their analysis to households that heat their homes with specific fuel types.

Maryland Low-Income Population Analysis Database Tutorial

Creating Custom Reports – Select Data to Analyze




☒ All Housing Types
☐ Single Family Attached
☐ Single Family Detached
☐ Small Multifamily (2-4 units)
☐ Large Multifamily (>=5 units)
☐ Mobile Homes



Users can use this menu to limit their analysis to households that live in different types of housing.

Select What You Want to Analyze About Your Population

Now that you have determined which households to include in your analysis, the next step is to decide what you want to know about your population. Users can get a total count of low-income households, analyze differences in the number of low-income households by population group (e.g. number of households by race/ethnicity), or generate statistics related to energy and housing affordability (e.g. average total energy bill) for the low-income population. Users make this selection in Step 3 of the report selection screen in the Database.

If you want a total household count within the population you selected		Select “All Low-Income Households” within Step 3 of the report screen
If you want to analyze differences in the number of low-income households by population group		Select a population group within Step 3 of the report screen
If you want to view statistics related to energy and housing affordability of the population you selected		Select a statistic within Step 3 of the report screen

Tip #2 Deciding Which Population Group to Analyze

Users interested in understanding the number of low-income households with different population characteristics should choose the appropriate population group they are interested in studying in Step 3 of the report screen. Population groups are organized by topic areas to help users determine which group they are interested in analyzing.

The Database will display the number of low-income households specified by the user with each characteristic associated with the selected population group. For example, if a user selects the population group “Owner/Renter”, they will receive a count of the low-income households that own their home and rent their home. Similarly, if a user selects the population group “Race/Ethnicity”, they will receive a count of the low-income households in each race/ethnicity group available for analysis.




To view a complete list of characteristics associated with each population group, see [Section 4 – List of Variables Available for Analysis](#).

Maryland Low-Income Population Analysis Database Tutorial

Creating Custom Reports – Select Data to Analyze

Choose a Second Variable to Include in Your Analysis (Optional)

Once you decide what you are analyzing in Step 3 of the report selection screen, you have the option to select a second variable that breaks out your analysis further in Step 4 of the report selection screen. Selecting a population group as your second variable in Step 4 will allow you to see the number or percentage of households in your primary analysis group broken out by a secondary analysis group. Selecting an energy or housing affordability statistic as your second variable in Step 4 will allow you to see the group average value for the selected statistic for each population characteristic associated with the population group you selected in Step 3. Users that do not want to select a second variable for analysis can skip Step 4 of the report selection screen. The example below shows what data you will receive if you are interested in analyzing owner/renter characteristics and choose to skip Step 4, choose a secondary population group variable in Step 4, or choose a secondary statistical variable in Step 4.





TYPE OF ANALYSIS SELECTED		TYPE OF OUTPUT DISPLAYED
“Owner/Renter” selected in Step 3 of report selection screen. No second variable selected in Step 4.		Number of low-income households that own and rent their homes
“Owner/Renter” selected in Step 3 of report selection screen. “Federal Poverty Level” selected in Step 4 of report selection screen.		Number or percentage of low-income households that own and rent their homes within each Federal Poverty Level range
“Owner/Renter” selected in Step 3 of report selection screen. “Average Total Energy Bill” selected in Step 4 of report selection screen.		Average Total Energy Bill for low-income owners and renters.

Maryland Low-Income Population Analysis Database Tutorial

Creating Custom Reports – Select Data Display Options

Choose How to Display Your Data

Now that you have finished specifying the data you will analyze, the next step is to decide whether you want to view your data as a chart or table. Depending on the type of data you are analyzing, the Database will present you different options for viewing your report as a chart or table. Based on the type of report and view selected, data can be shown as a number, percentage, or both. The table below summarizes what type of displays are available for each analysis type and whether the data can be displayed as a number and/or percentage.

One-variable population group analysis (no variable selected in Step 4 of the report selection screen)		<ul style="list-style-type: none">• Pie Chart (# and %)• Bar Chart (# and %)• Table (#)
One-variable statistical analysis (no variable selected in Step 4 of the report selection screen)		<ul style="list-style-type: none">• Table (\$ or %)
Two-variable population group analysis		<ul style="list-style-type: none">• Bar Chart (#)• Stacked Bar Chart (# or %)
Two-variable statistical analysis (statistical analysis for a selected population group)		<ul style="list-style-type: none">• Table (\$ or %)

Users can make their selection for how to display their data in Step 5 of the report selection screen. The available options for type of chart and number display will update based on what type of data you select in Steps 3 and 4 of the report selection screen.

STEP 5

Type of chart

☐ Pie

☐ Bar

☒ Stacked Bar

Number display

☐ Values

☒ Percentages

Maryland Low-Income Population Analysis Database Tutorial

Creating Custom Reports – Select Data Display Options

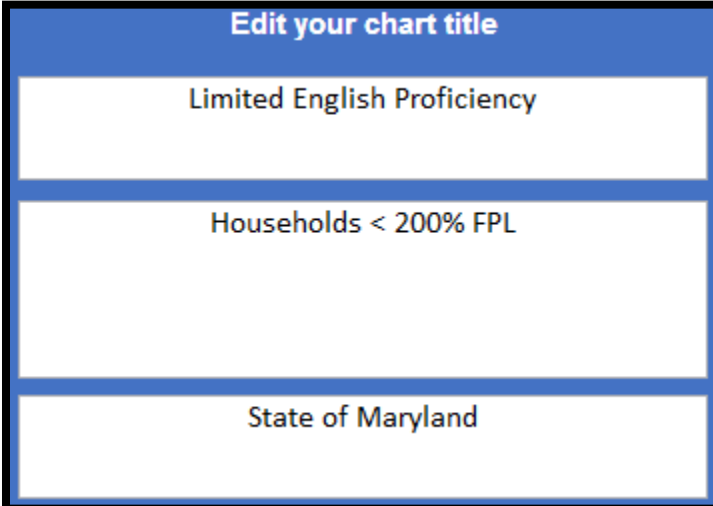
Tip #3

Should I View My Data as a Chart or Table?

You should consider your objectives and the type of data being analyzed when deciding how to display your report. Pie charts are best used when analyzing a variable with a limited number of characteristics. For example, developing a pie chart that includes all 16 county/county areas will be difficult to read and may be best interpreted in table format. When conducting two-variable population group analysis, a stacked bar chart is useful for understanding relative proportions of the low-income population with different characteristics whereas bar charts are useful for interpreting distinct values of each individual characteristic.

Edit Your Chart Title

As you specify the parameters for your report, the Database will automatically generate a descriptive title in Step 5 of the report selection screen. Through the “Edit Your Chart Title” menu, users can edit their title. All charts and tables will by default include a line in the title to indicate the data source used to generate the statistics (American Community Survey 2015 – 2017).



The image shows a web form titled "Edit your chart title" with a blue header. Below the header are three stacked white input fields with blue borders. The first field contains the text "Limited English Proficiency", the second field contains "Households < 200% FPL", and the third field contains "State of Maryland".

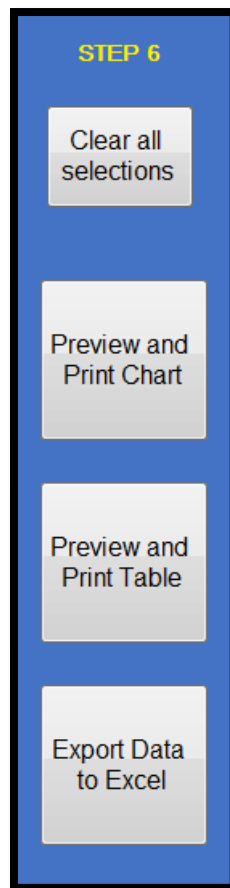
View Your Report

The final step in the report building process is to generate a chart or table or to export your data to an Excel file. You can view your chart or table by selecting “Preview and Print Chart” or “Preview and Print Table” in Step 6 of the report selection screen. Once selected, a preview of the chart or table will be displayed on a new screen. You can then print, save, or export your data in PDF format. Due to data display constraints, we do not recommend exporting data to Excel from the “Preview and Print” screens. Note that values of zero are represented as blank cells in charts and tables.

Maryland Low-Income Population Analysis Database Tutorial

Creating Custom Reports – Select Data Display Options

Users that would like to export their data to Excel should use the “Export Data to Excel” button in Step 6 of the report selection screen. You will be prompted to identify a file name and location to store the Excel spreadsheet and can then open and view your file. Data exported to Excel can only be viewed in table format. Information on the analysis variables used, filters applied, geographic area selected, and data source will be shown as separate columns of data followed by the computed values for the analysis performed. Data in Excel will be displayed as numbers unless the user specifies the report should be displayed as a percentage in Step 5 of the report selection screen. At any point, a user can clear the parameters they have selected in the report selection screen by selecting “Clear all selections” in Step 6.



STEP 6

Clear all selections

Preview and Print Chart

Preview and Print Table

Export Data to Excel

Maryland Low-Income Population Analysis Database Tutorial

Creating Custom Reports – Select Data Display Options

The screenshot displays the software interface for the Maryland Low-Income Population Analysis Database. The top toolbar contains various options for report generation and display. Two specific options are highlighted with orange boxes and arrows:

- Print**: Located in the top-left corner of the toolbar, with an orange arrow pointing to it.
- PDF or XPS**: Located in the top-right corner of the toolbar, with an orange arrow pointing to it and the label "Export to PDF" below it.

The main window, titled "rpt1D", shows a "Print Report" dialog box. The report content is as follows:

Print Report

Maryland Regions
Households < 200% FPL
State of Maryland
Source: American Community Survey 2015-2017

	Count	Percent
Capital	111,874	26%
Central	217,055	50%
Eastern Shore	43,602	10%
Southern	19,014	4%
Western	44,081	10%
Total households:	435,626	100%

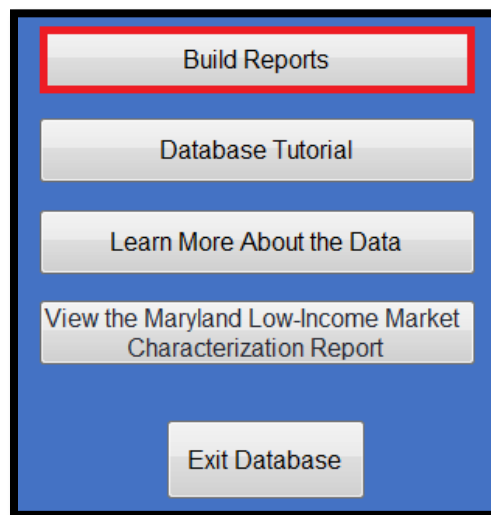
SELECTING STANDARD REPORTS

What's the Difference between Standard and Custom Reports?

The Maryland Low-Income Population Analysis Database provides users options to develop customizable or standard reports. Through the custom report features, users can access a guided search menu where they can define the population to analyze, choose what they want to analyze about the population, and decide how to view their data. Alternatively, the Standard Reports feature of the Database provides access to five predefined reports of common interest to users. These five reports are not configurable but provide quick access to information that is pertinent to users.

Access the Reports Section of the Database

From the Maryland Low-Income Population Analysis Database homepage, select “Build Reports.”



Access Standard Reports

You will be presented with five options for generating a report. To view the preconfigured standard reports in the Database, select “Standard Reports.”

Maryland Low-Income Population Analysis Database Tutorial

Selecting Standard Reports

Low-Income Population Analysis Database

I want to analyze...

State-Level Population Characteristics

Region-Level Population Characteristics

County-Level Population Characteristics

Low-Income Population Segments

**Not sure what you want to report?
Choose from one of our Standard Reports**

Standard Reports

Choose a Standard Report

You will be presented with five standard reports to choose from. Select the standard report of interest to you.

Low-Income Population Analysis Database

Standard Reports

Low-Income Renters by Housing Type by County

Low-Income Owners by Housing Type by County






Low-Income Households by Head of Household Type by County

Low-Income Households by Vulnerable Population Type by County

Households Income-Eligible for Energy Assistance by County

Maryland Low-Income Population Analysis Database Tutorial

Selecting Standard Reports

Low-Income Renters by Housing Type by County		Number of renters below 200% of the Federal Poverty Level in each county area, broken down by the type of housing they live in.
Low-Income Owners by Housing Type by County		Number of renters below 200% of the Federal Poverty Level in each county area, broken down by the type of housing they live in.
Low-Income Households by Head of Household Type by County		Number of households below 200% of the Federal Poverty Level in each county area, broken down into categories based on age of household members and the presence of children.
Low-Income Households by Vulnerable Population Type by County		Number of households below 200% of the Federal Poverty Level in each county area with the presence of an elderly individual (60+), disabled individual, child under six, or at least one of the above population groups.
Households Income-Eligible for Energy Assistance by County		Number of households below 175% of the Federal Poverty Level in each county area.

Print or Export Your Report

Once selected, your report will display as a table in a new pop-up window. Here you can view, print, and export your data. When exporting your data, we recommend you export the file as a PDF. Data can also be exported to an Excel file; however, the data will not be formatted with the table's title and information on the data sources.

Maryland Low-Income Population Analysis Database Tutorial

Selecting Standard Reports

Low-Income Owners by Housing Type by County
Source: American Community Survey 2015-2017

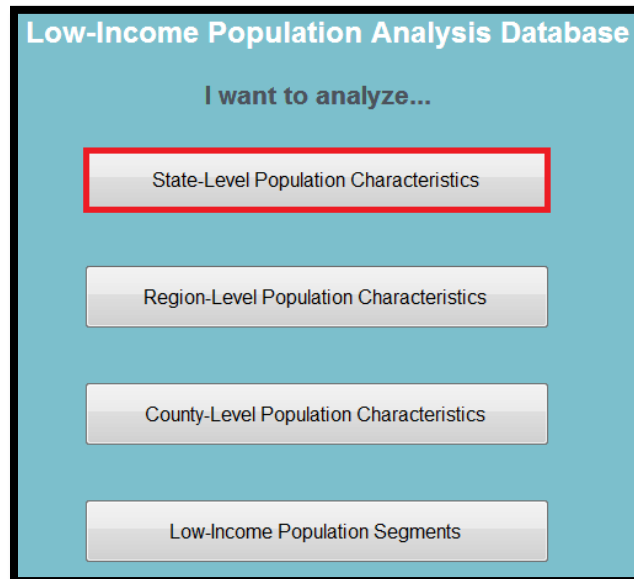
County Group	Single Family Attached	Single Family Detached	Small Multifamily (2-4 units)	Large Multifamily (5+ units)	Mobile Homes	County Total
Allegany and Garrett	393	6,064	85	98	812	7,453
Anne Arundel	2,560	9,654	47	1,307	946	14,515
Baltimore City	17,300	5,038	529	1,118	85	24,070
Baltimore County	7,265	15,646	58	1,932	885	25,787
Carroll	537	3,868	24	173	170	4,771
Cecil	290	2,247	0	51	675	3,263
Charles	504	3,743	0	0	203	4,450
Frederick	1,074	4,580	9	421	57	6,141
Harford	1,579	5,638	75	1,105	543	8,940
Howard	1,385	2,713	72	512	114	4,797
Lower Shore	355	6,413	29	253	953	8,004
Mid and Upper Shore	285	6,852	67	74	659	7,937

STEP-BY-STEP EXAMPLES FOR BUILDING REPORTS

The following three examples provide a step-by-step overview for how to develop different custom reports a user may be interested in.

Example #1 – *I want to view a table that shows the age of housing for owner-occupied low-income households in Maryland.*

Step 1: Since you are interested in data on households in the entire state of Maryland, choose to analyze “State-Level Population Characteristics.”



The screenshot shows a web interface titled "Low-Income Population Analysis Database". Below the title is a heading "I want to analyze...". Under this heading are four buttons arranged vertically. The first button, "State-Level Population Characteristics", is highlighted with a red rectangular border. The other three buttons are "Region-Level Population Characteristics", "County-Level Population Characteristics", and "Low-Income Population Segments".

Step 2: Since you want to limit your analysis to only households that own their homes, select “Owners” in Step 2 of the report selection screen.

Maryland Low-Income Population Analysis Database Tutorial

Example Report – Housing Age of Owner-Occupied Housing in Maryland

STEP 2
Select households to include

☒ All Low-Income Households

☐ 0 - 75% FPL

☐ 76 - 110% FPL

☐ 111 - 150% FPL

☐ 151 - 175% FPL

☐ 176 - 200% FPL

☒ All Low-Income Households

☐ Elderly Member

☐ Disabled Member

☐ Child Under 6

☐ All Owners and Renters

☒ Owners

☐ Renters

Step 3: Select “Age of Housing” in Step 3 of the report selection screen to analyze the housing age of this low-income population.

STEP 3
Pick a population group to analyze

Housing

☐ Owner/Renter

☐ Housing Type

☒ Age of Housing

Step 4: Select “Preview and Print Table” in the report selection screen to view a table with your report results. A pop out window with your results will appear.

Maryland Low-Income Population Analysis Database Tutorial

Example Report – Housing Age of Owner-Occupied Housing in Maryland

Select action

STEP 6

Clear all selections

Preview and Print Chart

Preview and Print Table

Export Data to Excel

Age of Housing

Households < 200% FPL, Owners Only

State of Maryland

Source: American Community Survey 2015-2017

	Count	Percent
1939 or earlier	25,285	15%
1940-1949	14,200	8%
1950-1959	27,703	16%
1960-1969	21,945	13%
1970-1979	23,999	14%
1980-1989	21,883	13%
1990-1999	18,769	11%
2000-2004	17,731	10%
Total households:	171,515	100%

Maryland Low-Income Population Analysis Database Tutorial

Example Report – Baltimore City Households by Housing Type and Federal Poverty Level

Example #2 – *I want to view a chart that shows the percentage of low-income households living in different housing types in different Federal Poverty Level ranges in Baltimore City.*

Step 1: Since you are interested in data only for households in Baltimore City, choose to analyze “County-Level Population Characteristics.” Then choose “Baltimore City” in Step 1 of the report selection screen.

Low-Income Population Analysis Database

I want to analyze...

State-Level Population Characteristics

Region-Level Population Characteristics

County-Level Population Characteristics

Low-Income Population Segments

STEP 1

Select Maryland counties

Allegany and Garrett
Anne Arundel
Baltimore City
Baltimore County
Carroll
Cecil
Charles
Frederick
Harford
Howard
Lower Shore
Mid and Upper Shore
Montgomery
Prince George's
St. Mary's and Calvert
Washington

Step 2: You are interested in viewing data on all low-income households in Baltimore City, so you do not need to apply any filters in Step 2 of the report selection screen. Leave this section with its default settings to include all households.

Maryland Low-Income Population Analysis Database Tutorial

Example Report – Baltimore City Households by Housing Type and Federal Poverty Level

STEP 2

Select households to include

☒ All Low-Income Households

☐ 0 - 75% FPL

☐ 76 - 110% FPL

☐ 111 - 150% FPL

☐ 151 - 175% FPL

☐ 176 - 200% FPL

☒ All Low-Income Households

☐ Elderly Member

☐ Disabled Member

☐ Child Under 6

☒ All Owners and Renters

☐ Owners

☐ Renters

☒ All Main Heating Fuels

☐ Electric

☐ Natural Gas

☐ Oil and Kerosene

☐ Propane

☐ Other

☒ All Housing Types

☐ Single Family Attached

☐ Single Family Detached

☐ Small Multifamily (2-4 units)

☐ Large Multifamily (>=5 units)

☐ Mobile Homes

Step 3: Your primary interest is to analyze housing types of low-income Baltimore City households. Select “Housing Type” as your population group to analyze in Step 3 of the report selection screen.

STEP 3

Pick a population group to analyze

Housing

☐ Owner/Renter

☒ Housing Type

☐ Age of Housing

Maryland Low-Income Population Analysis Database Tutorial

Example Report – Baltimore City Households by Housing Type and Federal Poverty Level

Step 4: Since you want to see the percentage of households in each housing type at different Federal Poverty Level ranges, select “Federal Poverty Level” as your secondary variable to analyze in Step 4 of the report selection screen.

STEP 4 (Optional)

Analyze your data by population group

Income

☒ Federal Poverty Level

☐ Annual Income

Step 5: Data comparing percentages of households with different characteristics can be effectively shown in a stacked bar chart. Choose “Stacked Bar” as your chart type and “Percentages” as your number display in Step 5 of the report selection screen.

STEP 5

Type of chart

☐ Pie

☐ Bar

☒ Stacked Bar

Number display

☐ Values

☒ Percentages

Step 6: Select “Preview and Print Chart” in the report selection screen to view a chart with your report results. A pop out window with your results will appear.

Maryland Low-Income Population Analysis Database Tutorial

Example Report – Baltimore City Households by Housing Type and Federal Poverty Level

STEP 6

Clear all
selections

Preview and
Print Chart

Preview and
Print Table

Export Data
to Excel

Maryland Low-Income Population Analysis Database Tutorial

Example Report – Baltimore City Households by Housing Type and Federal Poverty Level

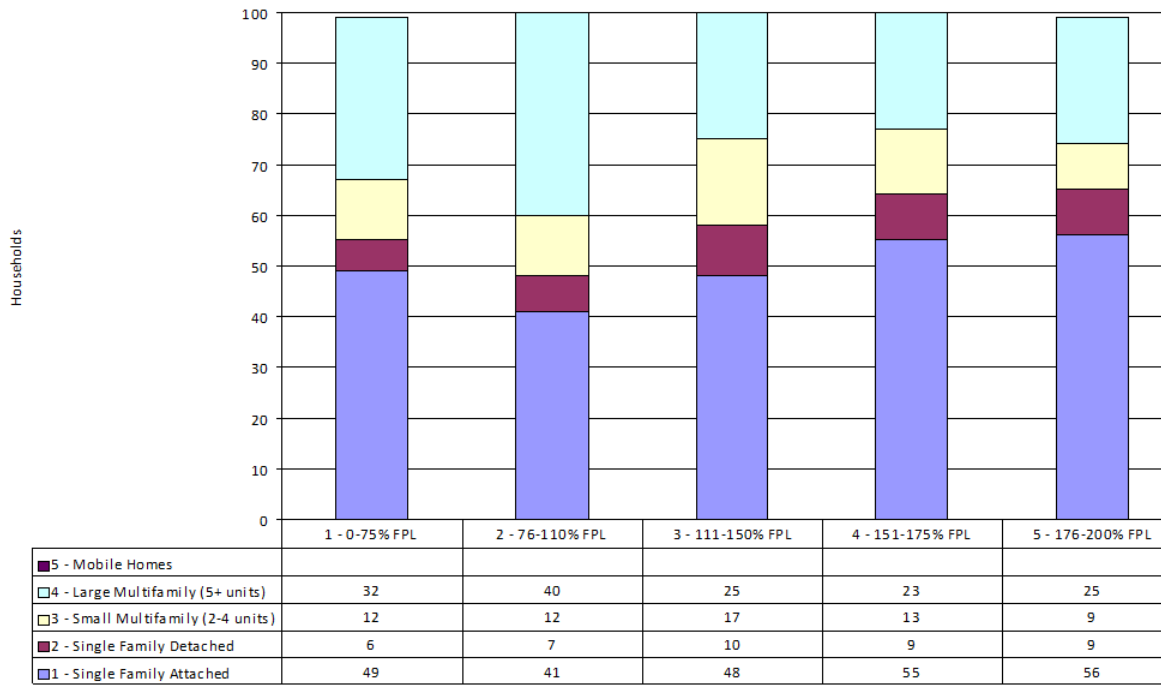
Housing Type by Federal Poverty Level

Households < 200% FPL

in County Area(s) Baltimore City

Percentages

Source: American Community Survey 2015-2017

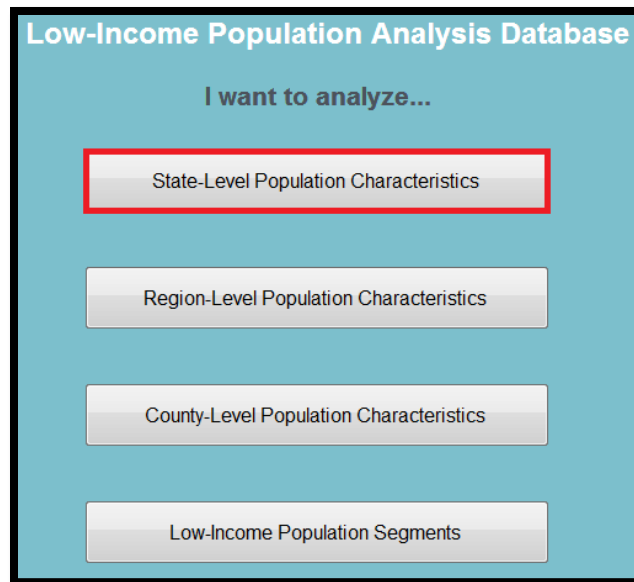


Maryland Low-Income Population Analysis Database Tutorial

Example Report – Average Gross Energy Burden for Households < 175% FPL by Region

Example #3 – *I want to view a chart that shows average gross energy burden for households below 175% of Federal Poverty Level in each state region.*

Step 1: You are interested in analyzing data for all regions in Maryland so select “State-Level Population Characteristics” for your analysis. If you were only interested in analyzing a subset of state-regions, you would select “Region-Level Population Characteristics.”



Low-Income Population Analysis Database

I want to analyze...

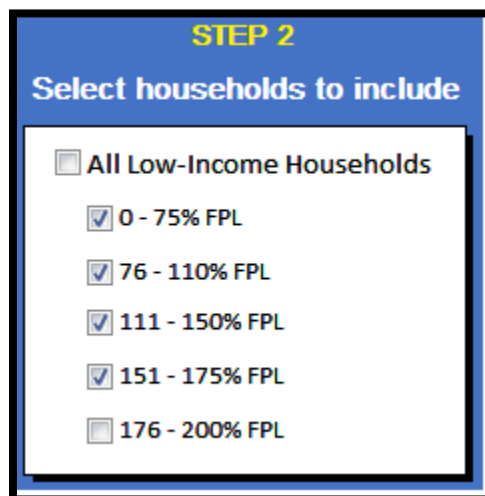
State-Level Population Characteristics

Region-Level Population Characteristics

County-Level Population Characteristics

Low-Income Population Segments

Step 2: Since you want to limit your analysis to only households below 175% of the Federal Poverty Level, select each poverty level range up to 175% of the Federal Poverty Level in Step 2 of the report selection screen.



STEP 2

Select households to include

☐ All Low-Income Households

☒ 0 - 75% FPL

☒ 76 - 110% FPL

☒ 111 - 150% FPL

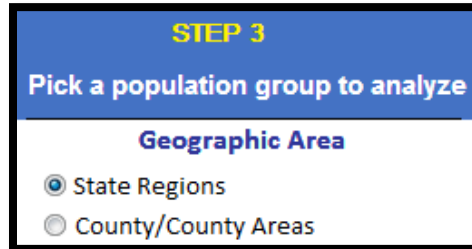
☒ 151 - 175% FPL

☐ 176 - 200% FPL

Maryland Low-Income Population Analysis Database Tutorial

Example Report – Average Gross Energy Burden for Households < 175% FPL by Region

Step 3: You are interested in analyzing data for each region in Maryland, so select “State Regions” as your population group to analyze in Step 3 of the report selection screen.



STEP 3

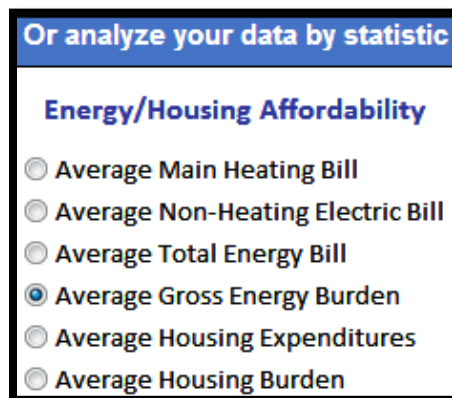
Pick a population group to analyze

Geographic Area

☒ State Regions

☐ County/County Areas

Step 4: Since you want to know what the average gross energy burden is in each region, select “Average Gross Energy Burden” as the secondary variable to analyze in Step 4 of the report selection screen.



Or analyze your data by statistic

Energy/Housing Affordability

☐ Average Main Heating Bill

☐ Average Non-Heating Electric Bill

☐ Average Total Energy Bill

☒ Average Gross Energy Burden

☐ Average Housing Expenditures

☐ Average Housing Burden

Step 5: Select “Preview and Print Table” in the report selection screen to view a table with your report results. A pop out window with your results will appear.

Maryland Low-Income Population Analysis Database Tutorial

Example Report – Average Gross Energy Burden for Households < 175% FPL by Region


STEP 6

Clear all selections

Preview and Print Chart

Preview and Print Table

Export Data to Excel



Maryland Regions by Average Gross Energy Burden

Poverty Levels: 0 - 75% FPL or 76 - 110% FPL or 111 - 150% FPL or 151 - 175% FPL

State of Maryland

Source: American Community Survey 2015-2017

Maryland Regions	Average Gross Energy Burden
Capital	13%
Central	15%
Eastern Shore	16%
Southern	16%
Western	12%

Maryland Low-Income Population Analysis Database Tutorial

List of Variables Available for Analysis

LIST OF VARIABLES AVAILABLE FOR ANALYSIS

Regions Available for Analysis

The following table documents the counties included in each region available for analysis in the Maryland Low-Income Population Analysis Database and the utility service areas they roughly approximate.

Regions Available for Analysis	Counties Included in County/County Area	Approximated Utility Service Area(s)
Capital	Montgomery, Prince George's	PEPCO, Washington Gas
Central	Baltimore City, Baltimore County, Howard, Anne Arundel, Carroll, Harford	Baltimore Gas & Electric
Eastern Shore	Cecil, Kent, Queen Anne's, Talbot, Caroline, Dorchester, Wicomico, Somerset, Worcester	Delmarva, Choptank, Easton
Southern	Calvert, Charles, St. Mary's	Southern Maryland Electric Cooperative, Washington Gas
Western	Garrett, Allegany, Washington, Frederick	Potomac Edison

County Areas Available for Analysis

The following table documents the counties and county areas available for analysis in the Maryland Low-Income Population Analysis Database.

County/County Area Available for Analysis	Counties Included in County/County Area
Allegany/Garrett	Allegany, Garrett
Anne Arundel	Anne Arundel
Baltimore City	Baltimore City
Baltimore County	Baltimore County
Carroll	Carroll
Cecil	Cecil
Charles	Charles
Frederick	Frederick
Harford	Harford
Howard	Howard

Maryland Low-Income Population Analysis Database Tutorial

List of Variables Available for Analysis

County/County Area Available for Analysis	Counties Included in County/County Area
Montgomery	Montgomery
Prince George's	Prince George's
Mid/Upper Shore	Queen Anne's, Talbot, Caroline, Dorchester, & Kent
St. Mary's/Calvert	St. Mary's & Calvert
Washington	Washington
Lower Shore	Wicomico, Worcester, & Somerset

Characteristics Associated with Each Population Group

The following table documents the characteristics available for analysis for each population group included in Steps 3 and 4 of the Maryland Low-Income Population Analysis Database report selection screens.

Topic	Population Group	Characteristics
Geographic Areas	State Region	See State Region table above
	County	See County Areas table above
Income	Federal Poverty Level	0 – 75% FPL
		76 – 110% FPL
		111 – 150% FPL
		151 – 175% FPL
		176 – 200% FPL
	Annual Income	Less Than \$10,000
		\$10,000 - <\$20,000
		\$20,000 - <\$30,000
		\$30,000 - <\$40,000
		\$40,000 - <\$50,000
		\$50,000 or More
Demographics	Head of Household Type	Elderly (60+), Individual
		Elderly (60+), Multiple Members
		Older (40 – 59) Without Children
		Older (40 – 59) with Children
		Younger (<40) Without Children
		Younger (<40) with Children
	Race/Ethnicity	White, Non-Hispanic
		Black, Non-Hispanic
		Hispanic
		Asian
		Other
	Limited English Proficiency	Proficient
		Limited English Proficiency – Hispanic
		Limited English Proficiency – Non-Hispanic

Maryland Low-Income Population Analysis Database Tutorial

List of Variables Available for Analysis

Topic	Population Group	Characteristics
	Internet Access	Does Not Have Internet Access
		Has Internet Access
Vulnerable Populations	Child Under Six	No
		Yes
	Elderly Member	No
		Yes
	Disabled Member	No
		Yes
	Any Vulnerable Population	No
		Yes
Housing	Owner/Renter	Own
		Rent/Other
	Housing Type	Single Family Attached
		Single Family Detached
		Small Multifamily (2-4 units)
		Large Multifamily (5+ units)
		Mobile Home
	Age of Housing	2000 or Later
		1990 to 1999
		1980 to 1989
		1970 to 1979
		1960 to 1969
		1950 to 1959
		1940 to 1949
		1939 or earlier
Energy Use	Main Heating Fuel	Electricity
		Natural Gas
		Fuel Oil/Kerosene
		Propane
		Other
		No Fuel Used
	Heat Included in Rent	Heat Included in Rent or Fee
		Pays Heating Bill Direct to Vendor